

User Guide Storage Tower III (ST3HPMRXA)

www.addonics.com

v6.1.11

Technical Support

If you need any assistance to get your unit functioning properly, please have your product information ready and contact Addonics Technical Support at:

Hours: 8:30 am - 6:00 pm PST Phone: 408-453-6212 Email: http://www.addonics.com/support/query/

Removing Cover of Storage Tower III

Loosen the 3 screws at the back of the tower using a Philips screwdriver by turning counter-clockwise. Separate the metal casing of the tower from the housing by lifting up the casing.

Installing drives into the Storage Tower

Secure up to three 3.5" SATA hard disk drive into the bay using optional mounting brackets.

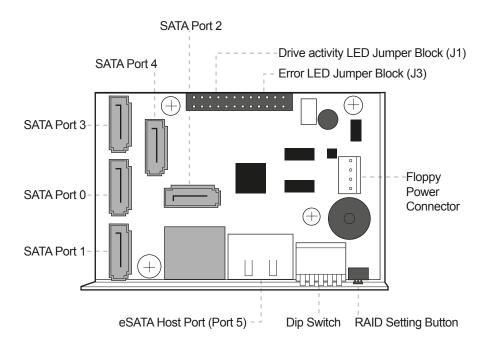
Note: It is recommended to fill up the tower III with SATA drives from top to bottom. This is to help in identifying which drives connect to which ports for easier troubleshooting.

Connecting the power cable and tower III to the computer

- a. Connect the power cord provided from the wall outlet to the back of the Tower.
- b. Make sure the power is off (power LED light should be off).
- c. Connect either the provided USB or eSATA cable from the back of the Tower to the computer. We recommend connecting the eSATA port for best performance if this port is available on your computer.

Power on/off control

Turn on the power to the Tower by pressing the power button on the front. The power LED light should lit indicating the power is on.

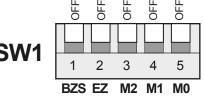


	Dip Switch Settings				
Raid Mode	1	2	3	4	5
Individual Drive (Factory Default)	OFF	OFF	OFF	OFF	OFF
0	OFF	OFF	ON	ON	ON
1 and 10	OFF	OFF	ON	ON	OFF
3	OFF	OFF	ON	OFF	OFF
5	OFF	OFF	OFF	ON	OFF
Clone	OFF	OFF	OFF	ON	ON
Large	OFF	OFF	ON	OFF	ON
	Enable ERR Buzzer Function	Auto- Rebuilding to Spare Drive	Pc	ort Multiplier Mo	de

Default factory DIP Switch setting:

SW1 – RAID Setting DIP Switch

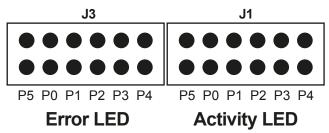
- BZS Error buzzer function
- EZ Automatic rebuilding to spare drive (one of the drives on the raid is set as a spare). If EZ is ENABLED and a drive failure occurs, the spare will automatically act as a drive replacement and rebuilding will automatically start.
- M2 RAID mode 2
- M1 RAID mode 1
- M0 RAID mode 0



- 1. Error buzzer function is ENABLED (BZS) when dip switch is in OFF position
- 2. Auto-rebuilding to spare drive is DISABLED (EZ)
- 3. Individual drive mode is ENABLED (M0~M2)

Note: When the default factory RAID setting is used, independent drive configuration and optical drive are supported only when connecting to controllers with Silicon Image Sil3124, Sil3132 chip set or controllers that are Port Multiplier (PM) compatible. Simultaneous DVD writing was tested using the Nero Burning Rom.

LED Pin Header



J1 – Drive Activity LED

P5 – Activity LED for eSATA host port lights up when it is connected to a SATA controller card.

P0, P1, P2, P3 & P4 - Activity LEDs for port 0, 1, 2, 3, 4 & 5 light up when a drive is connected and blinks when there's drive activity.

J3 – Error LED

P5 – error LED for eSATA host port P0, P1, P2, P3 & P4 - error LED for port 0, 1, 2, 3, 4 & 5

Setting or Modifying the RAID Mode Using the JMicron HW RAID Manager Utility Program:

1. For Windows users, install the JMicron HW RAID Manager located on the SATA Controller CD. In the CD, go to Configuration Utilities > JMB393. This manager can be use to create and monitor the status of the RAID volume.

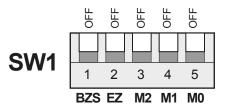
It is recommended to use the default factory RAID DIP switch setting when using the JMicron HW RAID Manager.

2. Modify the RAID mode on the 5-port HPM-XA using DIP switch

Recommended to be used on operating system without JMicron HW RAID Manager support like Linux, Mac & Solaris. Windows users can also use the procedure below.

Note: Steps A to D need to be performed each time the raid mode is modified.

a. Set the DIP switch to factory default setting.

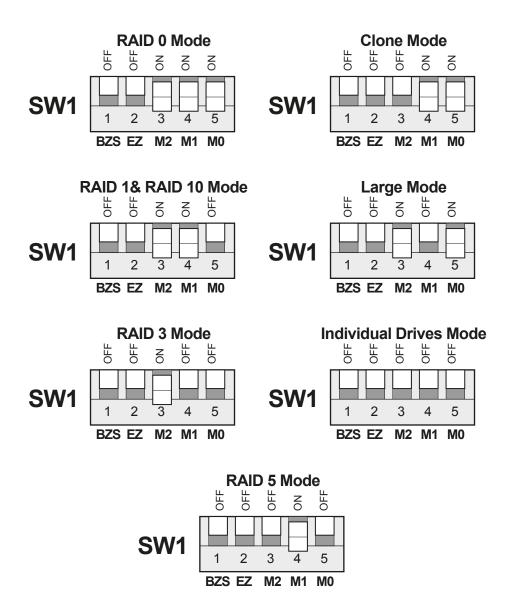


- b. Press the RAID setting button with a ball point pen.
- c. While pressing the RAID setting button turn on the system power where the HPM is connected. The buzzer will sound while holding the RAID setting button. Release it after at least 5 seconds for hardware initialization. A single beep will be heard to indicate initialization is completed. The above steps act as a reset.
- d. Power off the system power.

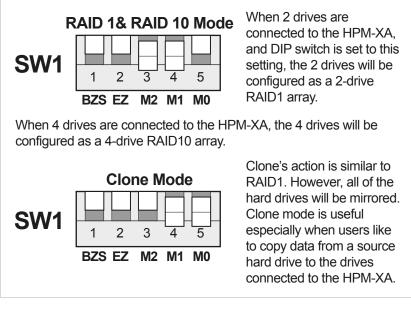
e. On the DIP switch, change (M0 to M2) setting to the desired RAID mode using the diagram below.

All settings on the diagram shows

- Error buzzer function is ENABLED
- EZ function is DISABLED.



RAID Setting Notes:



- f. Press the RAID setting button with a ball point pen.
- g. While pressing the RAID setting button turn on the system power where the HPM is connected. The buzzer will sound while holding the RAID setting button. Release it after at least 5 seconds for hardware initialization. A single beep will be heard to indicate initialization is completed.
- h. Verify if the RAID array is detected by the system.
- i. If the 5-port HPM-XA is connected to the motherboard onboard SATA, on the CMOS setup utility, the raid array will display as "Addonics H/W RAID5" if setup as a RAID5 array.
- j. If the 5-port HPM-XA is connected to an eSATA host controller card, on the RAID BIOS, the raid array will display as "Addonics H/W RAID0" if setup as a RAID0 array.
- k. If booted into Windows, in Disk Drives under Device Manager, the raid array will display as "Addonics H/W LARGE" if setup as a LARGE array.
- I. Once raid array is verified, you can set the buzzer either ON or OFF.

Notes on Spare Drives using the Easy RAID Setting (EZ)

When EZ function is ENABLED, the auto-rebuilding to spare drive is automatic. The degraded RAID group will start rebuilding automatically by using the existing spare drive.

* Spare drive can be either plugged before RAID building or a new drive can be plug as the spare drive when RAID rebuild is required.

A. Which port acts as a spare drive?

The last drive will automatically become the spare drive. For a 3-drive RAID5 with spare:

Drives connected to SATA ports 1~3 belong to the active RAID5 array and drive connected to port 4 is the spare.

For a 4-drive RAID10 with spare:

Drives connected to SATA ports 1~4 belong to the active RAID10 array and drive connected to port 5 is the spare.

For a 2-drive RAID1 with spare:

Drives connected to SATA ports 1& 4 belong to the active RAID1 array and drive connected to port 5 is the spare.

B. When will rebuild action start?

- When the raid fails and EZ is enabled, the HPM-XA will automatically rebuild the RAID group using the spare.
- When the raid fails and EZ is disabled, the HPM-XA will NOT rebuild the raid group unless you install a good drive to replace the failed drive.

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